

Reliability in Action

# Backhoe Loader B877F



# Backhoe Loader B877F

## A variety of configurations

**The new B877F sideshift backhoe loader** from SDLG is available in a variety of alternative configurations, allowing you to select the version that best suits your needs.

A remarkably efficient and versatile machine, whether you are operating the loader or the excavator, the B877F has the power and maneuverability to handle most jobs.

- 1** Access to the engine is made easy through the large, rear-hinged engine hood. To improve maintenance access, all filters are grouped inside the engine bay. The high-capacity radiator is also easily accessed via the large engine hood opening.
- 2** The spacious, air-conditioned cab provides the operator with excellent visibility all around the machine, and plenty of space for turning between the loader and excavator controls.
- 3** The B877F is equipped with an improved loader linkage system to provide powerful breakout force, and comes with a 1 m<sup>3</sup> loader bucket as standard.
- 4** The powerful 70kW Yuchai engine supplies the hydraulic system with enough power for a reliable constancy of flow so you can be certain of having the power you need, when you need it, to get the job done.
- 5** A 55° steering angle provides excellent maneuverability when working in confined areas. This, together with the 100% differential lock on the rear axle means that you can reliably cope with any condition.

## Specify the machine to suit your needs

Choose to specify your B877F with either a multi-purpose or a general purpose loader bucket, together with an extendable or a standard arm.

There is also a wide range of attachments to choose from, such as different size excavator buckets, mechanical quick-coupler and flip-over forks. If you require additional hydraulics (for example, for a hydraulic breaker) the B877F can also be equipped with these to suit your needs.





## Part of Volvo Group since 2007

**SDLG is part of Volvo Group** and one of the largest manufacturers of construction machinery in China, with a wide network of dealerships and service workshops throughout Africa and the Middle East.

### Safety features

- Hydraulic boom lock for safe and easy release
- Battery disconnect switch
- Engine fan guard
- Wide opening angle on the door, making entry and exit safe and easy
- Loader arm safety strut
- Dual rotating beacons (optional)
- ROPS/FOPS cab (optional)



# SDLG B877F: equipment and features

## Standard equipment

- Fully openable rear windows
- Adjustable steering column
- Air conditioning and heater
- Radio
- Sun visor
- Work lights
- LED rear lights
- 1 m<sup>3</sup> General Purpose loader bucket with teeth
- 625 mm excavator bucket with teeth and side cutters
- 4-wheel drive
- 70 kW Tier II engine
- Engine fan guard
- Fuel strainer
- 2 stage air filtration
- 12.5/80 - 18 front wheels
- 18.4 - 26 rear wheels
- Differential lock on rear axle
- Hydraulic boom lock
- Hydraulic end dampening on swing and arm cylinder
- Front rubber bumpers
- Loader safety strut
- Tool box

## Optional Equipment

- ROPS/FOPS cab
- Extendable arm
- Hydraulic breaker circuit
- License plate bracket
- Front fenders
- Rotating beacon
- Backing-up alarm
- Air pre-filter
- 16.9-28 rear wheels
- Rear light protection
- LED worklights

## Special features

■ **Cab fitted** with adjustable seat and adjustable steering column for all-day operator comfort leading to higher productivity. Ideally-placed controls and a high-performance heating/AC system. Excellent all-around visibility is provided by more glass, a sloping hood and narrow pillars.

■ **Loader performance** benefits from easy-to-handle control levers working in harmony with efficient hydraulics and powerful lift and breakout forces. Oil delivery is continuously adapted to provide power where and when needed throughout the parallel-lift linkage loading system.

■ **Excavator controls** are easy to access, with plenty of room to turn in the cabin, and designed to provide an ideal working position with spacious leg room. The comfortable working environment combined with efficient hydraulics ensures reliable levels of productivity.







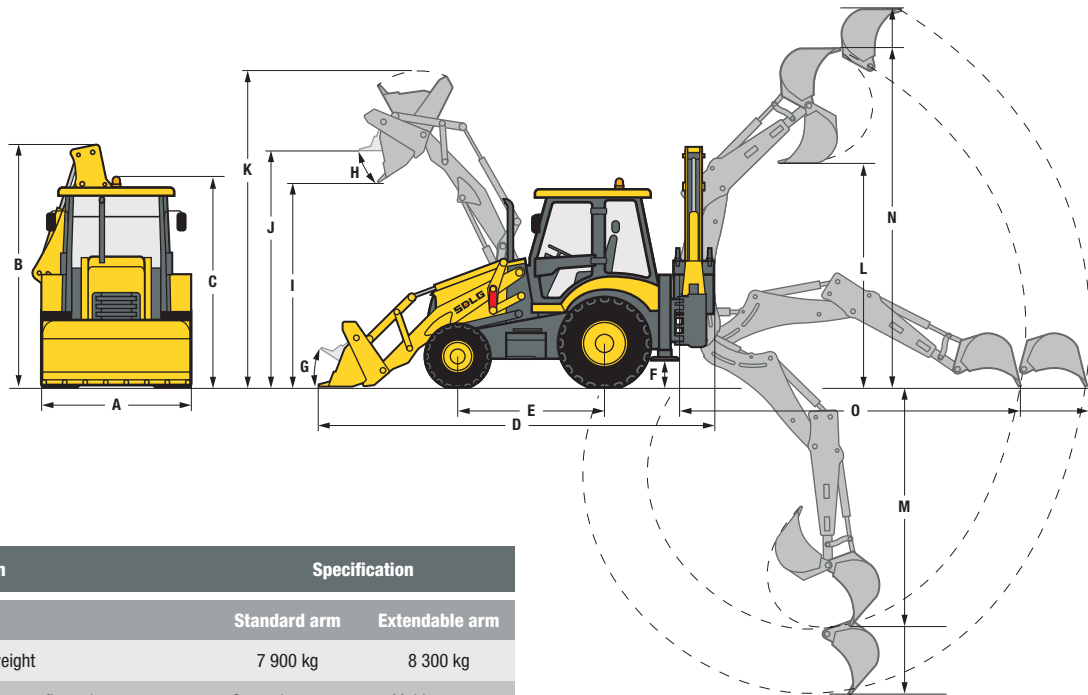
■ **Fixed-flow hydraulics** equipped with three fixed-displacement hydraulic gear pumps. These generate constant flow at different pressure levels to feed all the machine's hydraulic functions. Reliable and sturdy, with easy maintenance access for lower operating costs.

■ **Excellent maneuverability** and positioning with a steering angle of 55°. The B877F is equipped with a 100% differential lock which operates on the rear axle, providing maximum rear wheel grip on slippery ground. This is engaged via a foot switch on the side of the brake pedal.

■ **Maintenance access** is made easy, saving time with a one-piece tilting hood and grouped service points. These are easily visible and accessible from ground level for more uptime and lower operating costs.



# SDLG B877F: specifications



Description	Specification	
	Standard arm	Extendable arm
Operating weight	7 900 kg	8 300 kg
Loader bucket configuration	General purpose	Multi purpose
Standard loader bucket capacity	1 m <sup>3</sup>	1 m <sup>3</sup>
Standard excavator bucket width	625 mm	625 mm
ROPS/FOPS cab	Optional	No
Lift capacity (rated load)	1 800 kg	1 800 kg
Maximum tractive force	82 kN	82 kN
Maximum digging force	48 kN	48 kN
Minimum turning radius	5 426 mm	5 426 mm
Noise level inside cab	84 dB	84 dB
Noise level outside cab	108 dB	108 dB

Dimensions	Specification	
	Standard arm	Extendable arm
A. Overall width	2 350 mm	2 350 mm
B. Overall height	3 608 mm	3 608 mm
C. Height to top of cab (including beacon)	3 090 mm	3 090 mm
D. Overall length	5 917 mm	5 917 mm
E. Wheelbase	2 170 mm	2 170 mm
F. Ground clearance	363 mm	363 mm
G. Roll back angle ground level	45°	45°
H. Dump angle	45°	45°
I. Dump height	2 693 mm	2 693 mm
J. Load over height	3 193 mm	3 193 mm
K. Maximum operating height loader	4 313 mm	4 313 mm
L. Loading clearance excavator	3 606 mm	4 308 mm
M. Maximum digging depth	4 303 mm	5 337 mm
N. Operating height excavator	5 335 mm	5 986 mm
O. Reach from swing post at ground level	5 359 mm	6 300 mm
Maximum excavator bucket rotation	194°	194°

Description	Specification
<b>Excavator</b>	
Maximum digging force excavator bucket	48 kN
Maximum digging force excavator arm	38 kN
Maximum break-out force excavator	47.5 kN
<b>Loader</b>	
Maximum break-out force loader	48 kN
Maximum break-out force loader arm	45 kN
Maximum lift capacity loader (GP bucket)	3 180 kg
Maximum lift capacity loader (MP bucket)	2 935 kg
<b>Engine</b>	
Brand	Yuchai
Model	YC4A
Type	In line, water cooled, four stroke, direct injection
Rated Power (Gross)	70kW
Maximum torque @ 1 400 - 1 700 rpm	420 Nm
Bore / stroke	108/132 mm
Displacement	4 800 ml
Compression ratio	17 : 5 : 1

Description	Specification
<b>Transmission</b>	
Brand, model and type	Carraro TLB1-4WD Powershuttle
Gears forward	4
Gears reverse	4
Maximum speed forward	38 km/h
Maximum speed reverse	38 km/h
Service brake type	Vacuum servo
Parking brake type	Caliper disc
<b>Front axle</b>	
Brand and model	Carraro 26.22 - 1 920
Steering angle	55°
<b>Rear axle</b>	
Brand, type and model	Carraro wet brake 28.44 - 1 800
Differential lock	Yes
<b>Tires</b>	
Dimension front	12.5 - 18
Dimension rear	18.4 - 26 (16.9 - 28)
Front tire pressure	60.9 - 63.8 psi
Rear tire pressure	30.5 - 33.4 psi

Description	Specification
<b>Hydraulics</b>	
Type	3 x gear pump
Maximum flow	200 L/min
Maximum pressure	22.5 Mpa
Working pressure excavator	22.5 Mpa
Working pressure loader	22.5 Mpa
Maximum flow hammer line	61 L/min
Maximum pressure hammer line	14 Mpa
<b>Service fill capacities</b>	
Fuel	135 L
Hydraulic oil	165 L
Axles (main and final drives)	7.5 + 0.8 * 2/15 L
Engine	11 L
Transmission	20 L
Anti freeze	14 L

## SDLG B877F: optional attachments

Attachment type	Specification				
<b>Loader attachments</b>	<b>Width</b>	<b>Weight</b>	<b>Capacity</b>	<b>Number of teeth</b>	
General Purpose bucket	2 350 mm	460 kg	1 m <sup>3</sup>	8	
	2 350 mm	460 kg	1 m <sup>3</sup>	Bolt-on edge	
Multi Purpose bucket	2 350 mm	705 kg	1 m <sup>3</sup>	8	
Pallet forks	1 000 mm tines	289 kg	-	-	
<b>Excavator attachments</b>	<b>Width</b>	<b>Weight</b>	<b>Capacity</b>	<b>Number of teeth</b>	<b>Side cutters</b>
Heavy duty bucket	310 mm	111 kg	0.08 m <sup>3</sup>	3	Yes
	410 mm	120 kg	0.11 m <sup>3</sup>	3	Yes
	465 mm	127 kg	0.13 m <sup>3</sup>	3	Yes
	625 mm	150 kg	0.18 m <sup>3</sup>	4	Yes
	765 mm	170 kg	0.23 m <sup>3</sup>	5	Yes
	925 mm	193 kg	0.30 m <sup>3</sup>	6	No
Grading bucket	1 210 mm	153 kg	0.27 m <sup>3</sup>	-	No
Mechanical quick-coupler	-	54 kg	-	-	-
<b>Flip over forks</b>	<b>Length of tines</b>	<b>Weight</b>	<b>Rated load</b>		
	1 100 mm	477 kg	1 000 kg		

# The SDLG range of construction machinery



## Wheel Loaders

	Operating weight (kg)	Std bucket size (m <sup>3</sup> )
LG916	5000	0.8
LG918	6600	1
LG933	10200	1.8
LG936L	10900	1.8
LG938L	10550	1.8
LG946L	12700	2.3
L948	13650	2.3
L953F	16930	3
L956F	17450	3
L958F	17130	3.2
L968F	19950	3.5
L975F	24700	4.2

## Graders

	Operating weight (kg)	Blade size (ft)
G9138	12100	12
G9190	15800	13
G9220	16500	14
G9290	22100	14

## Backhoe Loaders

	Operating weight (kg)	Horse power
B877F	7900 - 8300	100

## Asphalt Compactors

	Operating weight (kg)
RD730	3070




## Soil Compactors

	Operating weight (kg)
RS8140	14000
RS8200	20000
RS7120	12000

**SDLG machines** are built to be like the people that own them: hardworking, genuine and reliable. Cost effective, robust machines with fuel efficient engines that are easy to operate and easy to maintain. And when you need parts or service, you can trust your dealership to deliver on the SDLG promise: **Reliability in Action.**

## Part of Volvo Group since 2007

**SDLG is part of Volvo Group** and one of the largest manufacturers of construction machinery in China, with a wide network of dealerships and service workshops throughout Africa and the Middle East.

-  [sdlgcm](#)
-  [sdlg\\_machines](#)
-  [sdlg\\_emea](#)

